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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/581,955	06/07/2006	Takeshi Ishizuka	NIWA	8644
James C Wray	7590 07/21/200	EXAMINER		
1493 Chain Bri	dge Road	TEATERS, LINDSEY C		
Suite 300 McLean, VA 22	2101		ART UNIT	PAPER NUMBER
			3742	
			MAIL DATE	DELIVERY MODE
			07/21/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Comments	10/581,955	ISHIZUKA, TAKESHI			
Office Action Summary	Examiner	Art Unit			
	LINDSEY C. TEATERS	3742			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 22 Ap	oril 2009.				
	action is non-final.				
<i>i</i> —	/ _				
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
oloood in absordance with the places and of E	x parto Quayro, 1000 O.B. 11, 10	.0.2.210.			
Disposition of Claims					
4)⊠ Claim(s) <u>2-4 and 7-11</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>2-4 and 7-11</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement				
o) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>22 April 2009</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.05(a).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 					
* See the attached detailed Office action for a list of	of the certified copies not receive	d.			
Attachment(s)					
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	ite			
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5)				

DETAILED ACTION

1. The amendment filed 04/22/2009 has been entered. Claims 2-4 and 7-11 remain pending in the application.

Response to Arguments

- 2. Applicant's arguments filed 04/22/2009 have been fully considered but they are not persuasive.
- 3. Applicant argues on page 10, paragraph 3 of the reply that use of the Kondo reference is conjecture because the "processing method of non-...." (emphasis added) can not be reasonably considered to mean non-wash rice. However, as is shown in the human translation of Kondo provided herewith, non-.... (emphasis added), translates to no-rinse milled rice, or non-wash rice. Applicant's argument is moot in view of translation provided.
- 4. Applicant argues on page 10, paragraph 4 of remarks that claim 3 has been rejected over Kondo even after admitting that Kondo does not teach that the mixture is sifted as claimed. By the statement "to use bran as the abrasive, taught by Kondo", examiner means to convey that Kondo teaches an abrasive, not that the abrasive taught by Kondo is a bran abrasive, and that it would be obvious to use bran instead of the abrasive taught by Kondo.
- 5. Applicant argues on page 12, paragraph 4 through page 13, paragraph 6, regarding claim 4, that Burkholder is improper to combine because its intended use is different that the rotary brushing means at hand and that the system of Burkholder is to be

used in an open preferably wet system where ionized air is not supplied. Burkholder, however, is used to convey the use of rotary brushes in polishing/cleaning items passed there over. The intended use is irrelevant if the fundamentals of use and outcome are the same. Also, the arguments of an open preferably wet system that lacks added ionized air is piecemeal analysis, as Burkholder is simply a piece of the combination teaching the limitations of claim 4.

- 6. Applicant argues on page 14, paragraph 1 regarding claim 7 that Kondo and Burkholder cannot be used to teach the features of claim 7. The contrary can be seen per remarks above. Applicant questions on page 14, paragraph 2 whether examiner relies on Saito in rejection of claim 7 or not. The use of Saito on page 7 is a typographical error and in the context of the paragraph it is apparent that Saito should be replaced with Burkholder, whose reference is referred to a sentence earlier.
- 7. Applicant argues on page 14, paragraph 4 that claims 8-11 all add further unique features to claim 7 and should be considered allowable as depending from claim 7. However, it has been shown herein above that claim 7 stands rejected. As such claims 8-11 also stand rejected.

Claim Rejections - 35 USC § 103

- 8. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 1. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kondo (JP 10080641 A), cited by applicant, in view of Saito (JP 2002113374 A), cited

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by applicant, and Ishizuka (JP 2002238479 A). Translations of Kondo, Saito, and Ishizuka are attached herewith.

Re claim 2:

Kondo teaches a method for producing wash-free rice (paragraph [0001]) comprising the steps of preparing polished rice (paragraph [0005]) polished by a built-in rice polishing machine (C, drawing 2) and sifted by a built-in sifting machine (paragraph [0009], 7, drawing 3) using an abrasive (paragraph [0005]) to prepare a mixture consisting of polished rice and abrasive in a desired ratio (paragraph [0008]), stirring the mixture in a tank by revolving stirring blades such that the polished rice and abrasive are mutually rubbed to strip sticking bran from the surfaces of the rice grains (paragraph [0004], paragraph [0005]), sifting the mixture in order to separate the abrasive and bran from the rice grains (paragraph [0014]), separating the residual sticking bran from the sifted rice in order to obtain wash-free finished rice (paragraph [0005]) and recovering the abrasive for recycling (paragraph [0005]), where in the stirring step a revolving rate of the stirring blades is raised if a surface level of the mixture in the tank is lower than a predetermined level (paragraph [0019]).

Kondo fails to teach that the rice is polished from brown rice and ionized air from an ion generating apparatus is supplied to the sifting and separating steps in order to eliminate static electricity so that debris is prevented from sticking to the finished rice grains, and in the separating step the ionized air flows upward while rice grains flow downward. Saito, however, teaches rice polished from brown rice (paragraph [0001]) and that ionized air from an ion generating apparatus (32, figure 1) is supplied to the

sifting and separating steps in order to eliminate static electricity and to prevent debris from sticking to the rice grains, the ionized air flowing upward which the rice grains flow downward (paragraphs [0023]-[0024]).

In view of Saito's teachings, it would have been obvious for one of ordinary skill in the art to create the polished rice, taught by Kondo, from brown rice and to pass ionized air through the sifting and separating steps. Brown rice has the outer layers surrounding the grain inside, and many consumers prefer to eat a polished version of the brown rice. The type of rice is a matter of discretion to the consumer. It is well understood in the art that stirring and sifting the rice and removed bran and debris creates static electricity within the system, and that ionized air is a method of eliminating the electrostatic adhesion. In addition to this benefit, the ionized air kills some parasites on rice and protects the rice from microbes which produce mold (paragraph [0023]).

Kondo, modified by Saito, fails to teach using bran as the abrasive. Ishizuka, however, teaches using parched bran (paragraph [0001]) as an abrasive for polishing rice.

In view of Ishizuka's teachings, it would have been obvious to one of ordinary skill in the art at the time of invention to use bran instead of the abrasive, taught by Kondo, as modified by Saito. Using bran as the abrasive allows for a single component debris system. If a separate abrasive is used, then the rice must be separated from the bran and the abrasive, and then if recycled, the bran and the abrasive must also be separated. Using bran allows the machine to eliminate the step of separating the bran from the abrasive.

Re claim 3:

Kondo also teaches a sifting step carried out in a tilted cylindrical sifting machine (D, drawing 2) of which contour is formed by a mesh net (paragraph [0017]) such that bran is separated from rice grains as the mixture flows downward (paragraph [0017]).

Kondo fails to teach that the mixture is sifted by revolving the tilted cylindrical sifting machine. However, it is inherent that the sifting machine may be revolved in order to sift one component of the mix through mesh circumferential walls of the sifting machine, and to hold one component therein, as opposed to sifting through a non-rotational mesh wall. The latter functions equally as well, and is simply an alternative to the revolving sifting machine.

2. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kondo (JP 10080641 A), cited by applicant, in view of Saito (JP 2002113374 A), cited by applicant, and Ishizuka (JP 2002238479 A), as applied to claim 2 above, and further in view of Burkholder (US 5,975,441). Translations of Kondo, Saito, and Ishizuka are attached herewith.

Re claim 4:

Kondo teaches that the separating step is for separating foreign debris from sticking to the surface of the sifted rice grains (paragraphs [0010] and [0005]) and is carried out by one or more finishing units (paragraph [0006]) and a supply guide means (6, drawing 3) for supplying rice uniformly to the finishing unit, and that the finished rice grains are taken out as wash-free rice (paragraph [0010]).

Kondo, modified by Saito and Ishizuka, fails to teach a cylindrical rotary brushing means for brushing the surfaces of the rice grains, a regulating means for smoothing a layer of supplied rice, a combing wedge for cleaning the brushes of the cylindrical rotary brushing means, where the rice grains are supplied uniformly in a reverse direction to a revolving direction as regulating the holdup and retention time of the rice grains so that the rice grains are rubbed by the cylindrical rotary brushing means in order to strip foreign debris sticking to the surfaces of the rice grains. Burkholder, however, teaches cylindrical rotary brushing means (5, figure 1), a regulating means (2, figure 1), a combing wedge (11, figure 1) for cleaning the brushes of the cylindrical rotary brushing means, where material is supplied uniformly in a reverse direction to motion of the cylindrical rotary brushing means (see figure 1) so that the material is rubbed by the cylindrical rotary brushing means in order to strip foreign debris sticking to the surfaces of the material (column 4, lines 51-60).

In view of Burkholder's teachings, it would have been obvious to one of ordinary skill in the art at the time of invention to include the specific structure listed above in the separating step, taught by Kondo, as modified by Saito and Ishizuka. Cylindrical rotary brushing means to strip a material of outer layers or foreign debris on its surface is very common in this art and others. As for supplying the material to the brushing means against the direction of motion, the cylindrical brushing means may be rotated in the opposite direction, however, applying the material in the same direction as the rotation may still regulate a holdup and retention time of the material. Although Burkholder presents the cylindrical rotary brushing assembly to be used for separating gravel from

foreign debris such as clay, dirt, and smaller rocks sticking thereon, the same fundamental idea applies to separating bran and other foreign debris from grains of rice.

Kondo, modified by Saito, Ishizuka, and Burkholder, regarding claim 2, fails to teach that the separated foreign debris is sucked and discharged by a solid-gas separating means. Saito, however, also teaches that remaining bran separated from the rice is sucked and discharged by a solid-gas separating means (paragraphs [0010] and [0024]).

In view of Saito's teachings, it would have been obvious to one of ordinary skill in the art at the time of invention to suck and discharge the foreign debris, taught by Kondo, as modified by Saito, Ishizuka and Burkholder, with a solid-gas separating means. The process of separating foreign debris from rice grains by eliminating the static electricity between the two using an ion generating apparatus is well known in the art. The ionized air applied to the system causes the foreign debris to float apart from the rice. It is beneficial to store this rice as to avoid having the foreign debris fall back onto the rice after the ionized airflow is ceased. Therefore, the foreign debris should be sucked out of the system, and in a closed loop air system discharged in a filter before the ionized air circulates back to the rice/bran separating system.

3. Claims 7 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kondo (JP 10080641 A), cited by applicant, in view of Burkholder (US 5,975,441) and Otsuka (JP 2002248359 A), cited by applicant, and Saito (JP 2002113374 A), cited by applicant. Translations of Kondo, Otsuka, and Saito are attached herewith.

Re claim 7:

Kondo teaches an apparatus (drawing 3) for producing wash-free rice comprising a polished rice tank (5', drawing 3) for accommodating rice polished by a built-in rice polishing machine (C, drawing 2) and sifted by a built-in sifting machine (paragraph [0014]), a stirring means (2, drawing 3) for mixing a mixture consisting of polished rice and an abrasive (paragraph [0005]) in a desired ratio by revolving stirring blades (paragraph [0008]), a transportation means (2, drawing 3) for the stirred mixture, a sifting means (7, drawing 3) for sifting the bran from the polished rice (paragraph [0014]), a separating means (C, drawing 2), a means for recycling the abrasive (paragraph [0005]) and a control means for controlling the revolving rate of the revolving blades and supply amount of the stirred mixture to the next step (paragraph [0019]).

Kondo fails to teach a separating means comprising cylindrical rotary brushing means for stripping foreign debris from the surfaces of the rice grains to obtain wash-free rice. Burkholder, however, teaches a separating means comprising cylindrical rotary brushing means (5, figure 1) for stripping foreign debris from the surfaces of a supplied material.

In view of Burkholder's teachings, it would have been obvious to one of ordinary skill in the art at the time of invention to include cylindrical rotary brushing means with the separating means, taught by Kondo. Cylindrical rotary brushing machines are and have been well known in this and other arts (tooth brushing, dishwashing, cleaning applications) for years. Although Burkholder discloses stripping foreign material from the surfaces of gravel, the same fundamental system can be applied to stripping bran and other foreign debris from the surface of rice grains.

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Kondo, modified by Burkholder, fails to teach a stirring means comprising a vertical revolving axis equipped in a vertical rotary housing, a plurality of revolving blades arranged radially around the vertical revolving axis in a plurality of stages and a shut-off valve arranged at the bottom of the vertical rotary housing. Otsuka, however, teaches a vertical revolving axis (paragraph [0015], drawing 2) equipped in a vertical rotary housing (2, drawing 2), a plurality of revolving blades (8a, drawing 2) arranged radially around the vertical revolving axis in a plurality of stages (see drawing 2) and a shut-off valve (paragraph [0016], 6, drawing 2) at the bottom of the vertical rotary housing (see drawing 2).

In view of Otsuka's teachings, it would have been obvious to one of ordinary skill in the art at the time of invention to use a vertical axis, housing, and stirring blades, and a shut-off valve as the stirring means, taught by Kondo, as modified by Burkholder.

Vertical housing and stirring blades offers the benefit of using gravity in the stirring process as well as for when the rice is moved on to the next stage. The shut-off valve allows for the rice to be moved to the next stage at intervals, as opposed to continuous free-falling of the rice.

Kondo, modified by Burkholder and Otsuka, fails to teach a static electricity eliminating means connected to the sifting and separating means comprising an ionized air generating apparatus and an ionized air transporting means and wherein ionized air flows upward while rice grains flow downward. Saito, however, teaches a static electricity eliminating means (32, drawing 1) connected to the sifting and separating means (see drawing 1) comprising an ionized air generating apparatus (32, drawing 1)

and an ionized air transporting means (33, drawing 1) wherein the ionized air flows upward while rice grains flow downward (paragraphs [0023]-[0024]).

In view of Saito's teachings, it would have been obvious to one of ordinary skill in the art at the time of invention to include an ionized air generating apparatus and transporting means with the sifting and separating steps taught by Kondo, as modified by Burkholder and Otsuka. Static electricity within the rice separating and sifting apparatus causes the bran and foreign debris, even when separated, to cling to the rice grains. Ionized air, as has been well recognized in this art and others, when applied to two objects clung together by static electricity negates the clinging force and separates the two. Since polished rice is the expected result of the assembly, it is beneficial to run a stream of ionized air from a generating apparatus through a transport means running through the rice sifting and separating means.

Re claim 9:

Kondo teaches that the separating means is a means for separating foreign debris sticking to the surface of the sifted rice grains (paragraph [0005]) constituted by one or more separating units (paragraph [0006]), each of which comprises a supply guide means (6, drawing 3).

Kondo, modified by Burkholder and Otsuka, regarding claim 7, fails to teach a cylindrical rotary brushing means for brushing the surfaces of the rice grains, a regulating means for smoothing a layer of supplied rice, and a combing wedge for cleaning the brushes of the cylindrical rotary brushing means. Burkholder, however, teaches cylindrical rotary brushing means (5, figure 1), a regulating means (2, figure 1), and a

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combing wedge (11, figure 1) for cleaning the brushes of the cylindrical rotary brushing means.

In view of Burkholder's teachings, it would have been obvious to one of ordinary skill in the art at the time of invention to include cylindrical rotary brushing means, regulating means, and combing wedges with the separating step, taught by Kondo, as modified by Burkholder and Otsuka. Cylindrical rotary brushing means to strip a material of outer layers or foreign debris on its surface is very common in this art and others. The regulating means is simply used to supply a steady, smooth stream of material to the cylindrical rotary brushing means and the combing wedge helps to clean the brushing means of the debris that accumulates therein from the brushing motion. Although Burkholder presents the cylindrical rotary brushing assembly to be used for separating gravel from foreign debris such as clay, dirt, and smaller rocks sticking thereon, the same fundamental idea applies to separating bran and other foreign debris from grains of rice.

Kondo, modified by Burkholder and Otsuka, fails to teach that the separated foreign debris is sucked and discharged by a solid-gas separating means. Saito, however, also teaches that remaining bran separated from the rice is sucked and discharged by a solid-gas separating means (paragraphs [0010] and [0024]).

In view of Saito's teachings, it would have been obvious to one of ordinary skill in the art at the time of invention to suck and discharge the foreign debris, taught by Kondo, as modified by Burkholder and Otsuka, with a solid-gas separating means. The process of separating foreign debris from rice grains by eliminating the static electricity between the two using an ion generating apparatus is well known in the art. The ionized

air applied to the system causes the foreign debris to float apart from the rice. It is beneficial to store this rice as to avoid having the foreign debris fall back onto the rice after the ionized airflow is ceased. Therefore, the foreign debris should be sucked out of the system, and in a closed loop air system discharged in a filter before the ionized air circulates back to the rice/bran separating system.

4. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kondo (JP 10080641 A), cited by applicant, in view of Burkholder (US 5,975,441), Otsuka (JP 2002248359 A), cited by applicant, and Saito (JP 2002113374 A), cited by applicant, as applied to claim 7 above, and further in view of Schreiber (US 2002/0060181). Translations of Kondo, Otsuka, and Saito are attached herewith.

Re claim 8:

Kondo teaches a sifting means including a tilted cylindrical sifting machine (D, drawing 2) of which contour is formed by a meshed net (paragraph [0017]).

Kondo, modified by Burkholder, Otsuka, and Saito fails to teach one or more series of guides made of a plurality of baffle plates arranged obliquely inside the tilted cylindrical sifting machine so as to sift the mixture as being revolved and moved downward. Schreiber, however, teaches a series of guides made of baffles arranged inside a tilted cylindrical sifting machine so as to sift a mixture being revolved and moved downward (paragraph [0004] lines 8-17, see figure 1).

In view of Schreiber's teachings, it would have been obvious to one of ordinary skill in the art at the time of invention to include a series of baffle plates inside the tilted

cylindrical sifting machine, taught by Kondo, as modified by Burkholder, Otsuka, and Saito. Baffle plates, as is widely recognized, guide the mix as it travels through the tilted cylindrical sifting machine.

5. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kondo (JP 10080641 A), cited by applicant, in view of Burkholder (US 5,975,441), Otsuka (JP 2002248359 A), cited by applicant, and Saito (JP 2002113374 A), cited by applicant, as applied to claim 9 above, and further in view of Richter (US 4,505,777). Translations of Kondo, Otsuka, and Saito are attached herewith.

Re claim 10:

Kondo, modified by Burkholder, Otsuka, and Saito, fails to teach that the separating unit comprises a downwardly tilted supply guide means constituted by a base plate and parting plates widening toward the end arranged on the base plate. Richter, however, teaches a downwardly tilted supply guide means (2, figure 3) constituted by a base plate (2, figure 3) and parting plates (5, figure 3) widening toward the end arranged on the base plate (12, figure 3, guide means disperse toward output end).

In view of Richter's teachings, it would have been obvious to one of ordinary skill in the art at the time of invention to include a supply guide means, taught by Kondo, as modified by Burkholder, Otsuka, and Saito, that is downwardly tilted and is constituted by a base plate and parting plates widening toward the end of the base plate.

Downwardly tilting the supply guide means allows for gravity to carry the rice without any alternative power means, and the parting plates, acting as guide vanes, serve to direct

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the flow and create a more laminar uniform flow. The parting plates widening near the end allows the flow to become slightly less separated as it strikes the cylindrical rotary brushing means.

Kondo, modified by Burkholder, Otsuka, Saito, and Richter, regarding claim 9, fails to teach cylindrical rotary brushing means below the end of the supply guide means, a regulating means for smoothing a layer of supplied rice and regulating a holdup of the supplied rice by varying a gap between the brushing means and the regulating means, and a combing wedge for always cleaning the brushes of the cylindrical rotary brushing means. Burkholder, however, teaches cylindrical rotary brushing means (5, figure 1) below the end of the supply guide means (see figure 1), a regulating means (2, figure 1) for regulating a holdup of the supplied rice by varying a gap between the brushing means and the regulating means by adjusting the tilting angle, and a combing wedge (11, figure 1) for always cleaning the brushes of the cylindrical rotary brushing means.

In view of Burkholder's teachings, it would have been obvious to one of ordinary skill in the art at the time of invention to include cylindrical rotary brushing means, regulating means, and combing wedges with the separating step, taught by Kondo, as modified by Burkholder and Otsuka. Cylindrical rotary brushing means to strip a material of outer layers or foreign debris on its surface is very common in this art and others (tooth brushing, dishwashing, cleaning, etc.). The regulating means is simply used to supply a steady, smooth stream of material to the cylindrical rotary brushing means. In doing so, automatically regulates a holdup of the rice, and the gap between the cylindrical rotary brushing means and the regulating means altering by changing a tilting angle of the regulating means changes the holdup time and the amount of rice supplied due to gravity.

The combing wedge helps to clean the brushing means of the debris that accumulates therein from the brushing motion. Although Burkholder presents the cylindrical rotary brushing assembly to be used for separating gravel from foreign debris such as clay, dirt, and smaller rocks sticking thereon, the same fundamental idea applies to separating bran and other foreign debris from grains of rice.

6. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kondo (JP 10080641 A), cited by applicant, in view of Burkholder (US 5,975,441), Otsuka (JP 2002248359 A), cited by applicant, and Saito (JP 2002113374 A), cited by applicant, as applied to claim 9 above, and further in view of Carlton (US 4,330,340). Translations of Kondo, Otsuka, and Saito are attached herewith.

Re claim 11:

Kondo teaches that all components are designed in order to fit in position easily (see drawings 2 and 3). An assembly, especially for industrial use, is palpably constructed to all components of the assembly fit into position easily.

Kondo, modified by Burkholder, Otsuka, and Saito, regarding claim 9, fails to teach a cylindrical rotary brushing means, a combing wedge, and a supply guide means and supply guide aiding means each constituted by being arranged at a predetermined slanting angle, a gap between the end of the supply guide means and the cylindrical rotary brushing means maintained such that falling rice is lifted by the revolving brushes and the combing wedge always cleans the brushes of the cylindrical rotary brushing means. Burkholder, however, teaches cylindrical rotary brushing means (5, figure 1), a

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combing wedge (11, figure 1) to always clean the brushes of the cylindrical rotary brushing means (column 6, lines 65-67, column 7, lines 1-2), and a supply guide means (2, figure 1) and supply guide aiding means (12, figure 1) each constituted by being arranged at a predetermined slanting angle (see figure 1), a gap between the end of the supply guide means and the cylindrical rotary brushing means maintained such that falling material is lifted by the revolving brushes (see figure 1).

In view of Burkholder's teachings, it would have been obvious to one of ordinary skill in the art at the time of invention to include with the separating unit, taught by Kondo, as modified by Burkholder, Otsuka, and Saito, a cylindrical rotary brushing means, a combing wedge, a supply guide means, and a supply guide aiding means with the specific structure specified above. Cylindrical rotary brushing means to strip a material of outer layers or foreign debris on its surface is very common in this art and others (tooth brushing, dishwashing, cleaning, etc.). The combing wedge helps to clean the brushing means of the debris that accumulates therein from the brushing motion. The supply guide means and supply guide aiding means being prearranged at a slanting angle and having a gap in between the end of the supply guide means and the cylindrical rotary brushing means is useful for adjusting the best functioning position of the apparatus. It is desired to have the supply guide means and supply guide aiding means at angles which will supply the desired amount of rice to the brushing system, and also to space the supply guide means above the cylindrical rotary brushing means such that the rice will fall and be caught and lifted by the brushing means such that the excess bran and foreign debris on the rice can be loosened. Although Burkholder presents the cylindrical rotary brushing assembly to be used for separating gravel from foreign debris such as clay, dirt,

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and smaller rocks sticking thereon, the same fundamental idea applies to separating bran and other foreign debris from grains of rice.

Kondo, modified by Burkholder, Otsuka, and Saito, fails to teach that the supply guide means and supply guide aiding means each constitute a permeable net with a sifting structure. Carlton, however, teaches supply guide means constituted by a permeable net with a sifting structure (column 4, lines 8-23).

In view of Carlton's teachings, it would have been obvious to one of ordinary skill in the art at the time of invention to use a permeable net with a sifting structure as the supply guide and supply guide aiding means. This permeable structure will allow the bran to be sifted from the rice during transport to and through the cylindrical rotary brushing means as to expedite the removal of the bran from the rice during the process.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to LINDSEY C. TEATERS whose telephone number is 571-270-5913. The examiner can normally be reached on Mon-Thur 8:30am-6:00pm :: alternating Fri 8:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu Hoang can be reached on 571-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/LINDSEY C TEATERS/ Examiner, Art Unit 3742

07/16/2009 /TU B HOANG/ Supervisory Patent Examiner, Art Unit 3742